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ABSTRACT:

A method and device for measuring a switched current ( $I_H$ ) which is periodically switched on and off, and for providing a measuring signal accurately reflecting the switched current ( $I_H$ ), includes: sensing the switched current ( $I_H$ ) with an AC current transformer to obtain an intermediate measuring signal ( $V_{HM}$ ); receiving a timing signal indicating the on and off periods of the switched current ( $I_H$ ); during an off period, generating an auxiliary signal such that the sum of the intermediate measuring signal and the auxiliary signal is equal to zero; and during an on period, adding the intermediate measuring signal and said the auxiliary signal and providing the sum signal as the output measuring signal.